9700

Xerox 9700 Electronic Printing System

XEROX

9700

Xerox 9700 Electronic Printing System

The Xerox 9700 Electronic Printing System combines computer, laser, and xerographic technologies to print data and textual material and forms images of practically unrestricted size, shape, and orientation directly from digital information.

The Xerox 9700 prints on ordinary 8½- by 11-inch cut sheet paper at a rate of two pages per second—up to 18,000 lines per minute, depending upon data format. The 9700 operates on-line, off-line, or on-line/off-line selectable with most IBM System/370 and System/360 computers, and off-line with a variety of standard vendor tape formats.

The features of the on-line, off-line, and selectable models, except for the method of entering information into the printing system, are identical. These include:

Electronic Forms
Forms, including logos, signatures, and charts, are stored within the Xerox 9700 and imaged electronically, upon demand, concurrently with the variable data. This eliminates the need for forms overlays and most preprinted forms as well as assuring perfect registration. Multiple forms, stored in digital format, are changeable on a page-to-page (up to six per job) or copy-to-copy basis. And new forms can be created within minutes.

Original Output
Each page is an executive-quality xerographic original—no barely legible carbon copies, no messy bursting or decollating.

Character Font Styles and Sizes
Output can be customized for specific needs. The Xerox 9700 offers unlimited font styles in a continuous range of type sizes from 4 to 24 point equivalents.

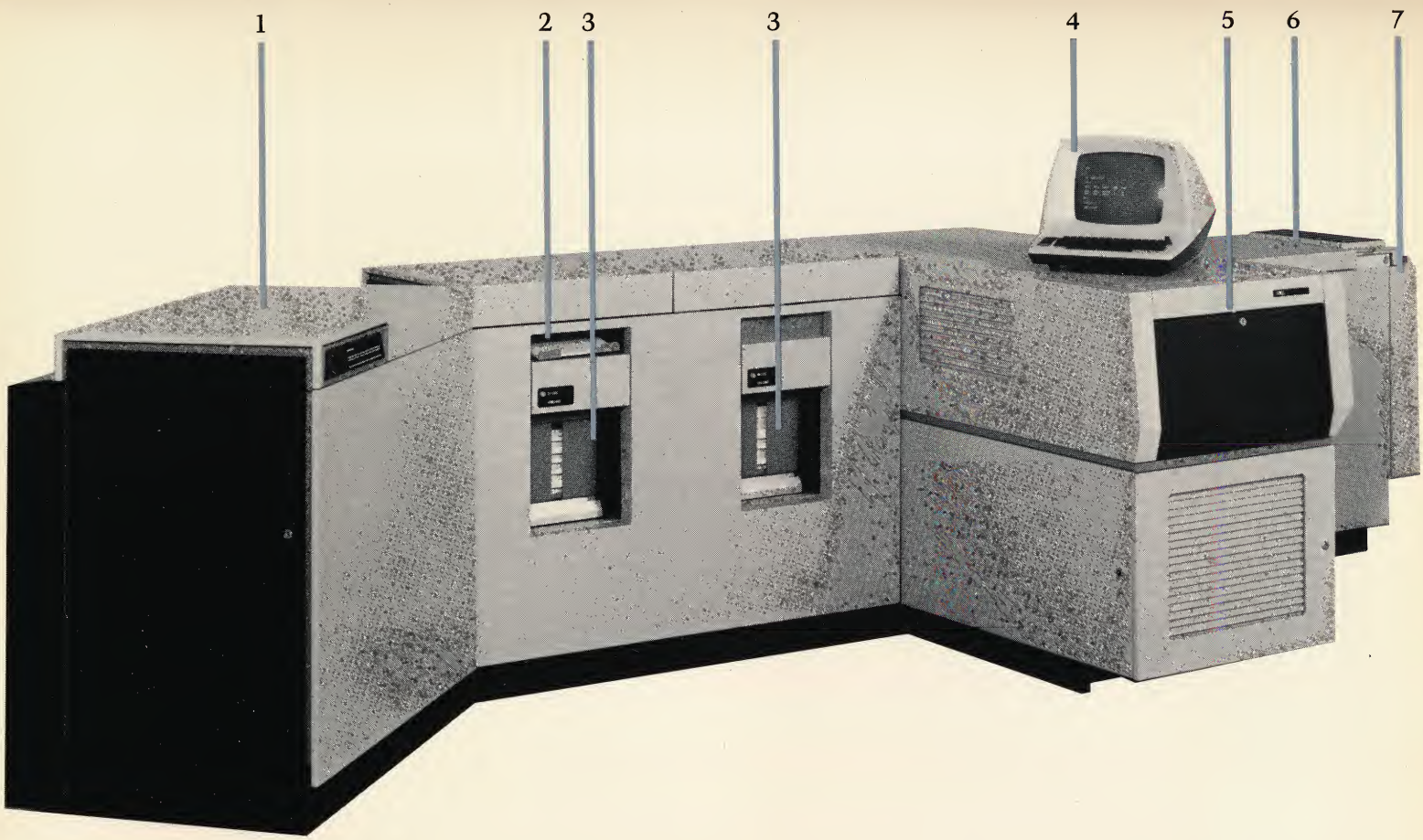
Horizontal/Vertical Printing
Characters may be printed horizontally or vertically with equal ease. The Xerox 9700 can switch instantly between horizontal and vertical page formats, combining the two styles within a single report.

Variable Line and Character Spacing
The Xerox 9700 is not limited to the fixed line and character spacing of other computer printers. Line spacing is continuously variable from 3 to 18 lines per inch, and character spacing is continuously variable from 4 to 30 characters per inch.

Large Variety of Paper Types and Weights
The Xerox 9700 offers great flexibility in paper types and weights, ranging from economical 16-pound bond up to 110-pound index, including pre-drilled and pre-perforated papers.

Continuous Operation
Several features are designed to provide non-stop operation, maximizing productivity. Dual input trays and dual output stackers allow loading and unloading of paper while the system continues printing. Input disk buffering eliminates the need to stop printing while accepting additional jobs or mounting a new tape. And electronic forms can be changed automatically without interrupting full-speed operation.

Operating Simplicity
The operator interacts with the system at a CRT console using simple English-language commands. Because of the non-stop operating features, need for operator intervention is minimal.



1. System Controller
Contains system disk for input buffering, digital processor memory for forms storage, and electronic circuitry for data input and overall system control.

2. Sample Print Tray
Extra test pages are diverted to this tray on request, allowing monitoring of system operation without interruption of printing.

3. Output Stackers
Two output stackers assure continuous printing. Output is automatically transferred to second bin after one bin is filled, and operator is notified that output is ready for removal. Easy-access containers can be placed in output stackers to make output easier to remove and carry for distribution.

4. Operator's Keyboard Display Console
Provides the means of operator interaction with the Xerox 9700. Operator uses this console to initiate and monitor jobs. Instructions to operator can also be initiated by the 9700 and communicated via this CRT console.

5. Image Generator
This unit provides electronic control to the laser beam which creates the character images. It accesses the font memory where characters and forms are stored digitally as dot patterns.

6. Xerographic Printer
Pages are printed xerographically in this unit at two-page-per-second speed (up to 18,000 lines per minute, depending upon data format).

7. Input Paper Trays
Two input trays assure continuous operation. When main tray approaches empty state, operator is signalled and paper feed is automatically transferred to auxiliary tray.

Specifications

Functional Units

Printer Complex:
- Xerographic Printer
- Image Generator
- Output Module

System Controller

CRT Console

On-Line Interface

Host System Capability:
- IBM System/370 Models 135 and larger
- IBM System/360 Models 30 and larger

Host Software Compatibility:
- OS/VS/370
- OS/360
- DOS/VS/370
- DOS/360/370

Off-Line Tape Input

1600 BPI, 9-track tape conforming to one of the following formats:
- ANSI
- IBM OS/VS/370, OS/360, DOS/VS/370, DOS/360/370
- Burroughs MCP 2500-4700, MCP 6700
- Honeywell OS2000, OS6000
- Univac Series 70
- Univac 1100—OS Standard Files

Tape Input Codes:
- EBCDIC
- ASCII
- BCD (9-track)

Forms Consideration

Paper: 8½ by 11-inch, 16-pound bond to 110-pound index cut sheet—including Xerox microsphere, Xerox label stock, tinted, pre-drilled, pre-perforated.

Preprinted Forms: 8½ by 11-inch within previously stated weights and characteristics.

Forms Creation: Stored digitally and created electronically concurrent with variable data.

Output

Print Format:

Variable 3 to 18 lines per inch vertical; variable 4 to 30 characters per inch horizontal.

Total page density (variable data) of up to 9900 alphanumeric characters in basic system; 19,800 alphanumeric characters in fully extended system.

Print Speed:

Two pages per second (up to 18,000 lines per minute, depending upon data format).

Character Set:

4 64-character sets standard
12 128-character sets maximum (fully extended system)

Resolution:

300 dots per inch vertical; 300 dots per inch horizontal.

Output Stackers:

Two bin modules, 1500-page capacity (20-pound bond) each, with job or run offsetting capability.

Input Paper Trays:

Main: 2500-page capacity (20-pound bond)
Auxiliary: 400-page capacity (20-pound bond)

Physical Characteristics

Dimensions (max.)	Length	Depth	Height	Weight
Printer Complex	135 in.	64 in.	40.9 in.	2225 lbs.
System Control Module	39 in.	28 in.	40.9 in.	500 lbs.
Magnetic Tape Unit	22 in.	29 in.	48.0 in.	285 lbs.
CRT Console	15 in.	20 in.	13.5 in.	25 lbs.

Access Requirements:

3 ft. clearance on all sides for maintenance access.

Environmental Requirements:

Recommended Operating Temperature	72°F ±4°F
Minimum/Maximum Operating Temperature	60 to 80°F
Recommended Relative Humidity	45% ±10%
Minimum/Maximum Relative Humidity	30 to 65%
Heat Dissipation:	
Operating	38,000 Btu per hour
Standby	12,000 Btu per hour

Electrical Requirements:

System Control Module	120/208 or 120/240 V AC 60 Hz 20 amp service
Printer Complex	120/208 or 120/240 V AC 60 Hz 60 amp service

Additional Requirements (Off-Line and On-Line/Off-Line Selectable)

Environmental Requirements:

Heat Dissipation:	
Operating	5700 Btu per hour
Standby	3700 Btu per hour

Electrical Requirements:

Magnetic Tape Unit	120 V AC 60 Hz 15 amp service

XEROX

Xerox Corporation
701 South Aviation Boulevard
El Segundo, California 90245
213 679-4511

All specifications subject to change without notice.
XEROX®, 9700, and 1200 are trademarks of XEROX CORPORATION
Printed in U.S.A. 500455